

# Hydromantis

## CAPDET Works

# 2.5

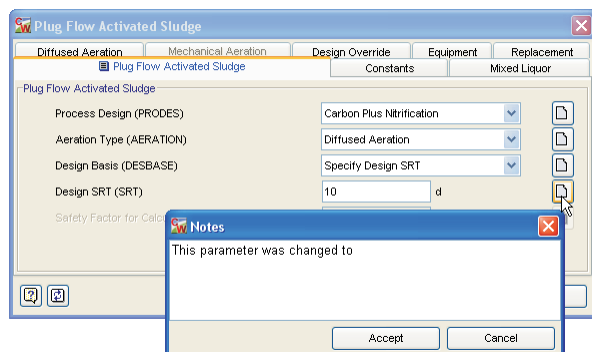
Hydromantis is committed to the continued growth of CapdetWorks incorporating the latest developments in wastewater process technology and model development.

We are pleased to announce the following enhancements and additions to CapdetWorks.

### New Values for the Equipment Costing Database

Extensive research went into checking and obtaining updated costs for all of the equipment and unit costs that are required when designing wastewater treatment plants. Costs were obtained from suppliers and manufacturers throughout North America and were cross-checked using costing studies done by our own consulting group.

Description	Cost	Cost Index	Value of Cost In...
1 ft of 24-in diam. reinforced concrete drainpipe for land treatment	\$27.50	PIPE	738.8
1 ft of 12-in diam. welded steel pipe	\$120.00	PIPE	738.8
8-in diam. cast iron pipe per foot	\$50.00	PIPE	738.8
8-in diam. cast iron tee	\$800.00	PIPE	738.8
8-in diam. cast iron bend	\$350.00	PIPE	738.8
8-in diam. cast iron plug valve	\$3,400.00	PIPE	738.8
12-in. diam. butterfly valve	\$2,000.00	PIPE	738.8
16-in pump	\$35,000.00	MAS	1383.6
100 gpm (at 40 ft) pump and driver unit	\$3,500.00	MAS	1383.6
3000-gpm pump and driver unit	\$18,000.00	MAS	1383.6
8-gpm at 70 ft of head sludge pump	\$5,500.00	MAS	1383.6
Variable frequency drive module for a 20-hp motor	\$4,300.00	MAS	1383.6
100-hp, 1200-rpm synchronous motor	\$7,175.00	MAS	1383.6
5-hp vertical turbine mixer	\$8,950.00	MAS	1383.6
2-ft mechanically cleaned bar screen unit	\$120,000.00	MAS	1383.6
108-sqft microscreen	\$60,000.00	MAS	1383.6
350-sqft air flotation unit	\$107,100.00	MAS	1383.6
3-ft by 6-ft control gate with operator and frame for a carbon adsorption unit	\$48,690.56	MAS	1383.6
1 sqft of underdrain system for a carbon adsorption unit	\$70.00	MAS	1383.6
784-sqft filtration unit	\$403,000.00	MAS	1383.6
60-ft diam. upflow clarifier	\$130,000.00	MAS	1383.6
Clarifier mechanism:Rectangular 20-ft by 120-ft	\$110,000.00	MAS	1383.6
Clarifier mechanism:Circular 90-ft diameter	\$90,000.00	MAS	1383.6



### Parameter Notes

Forgotten why you changed a particular parameter? Now you can record as much information as you like right in the CapdetWorks layout. Each parameter now has a "notes field" where you can jot down and review information as needed.

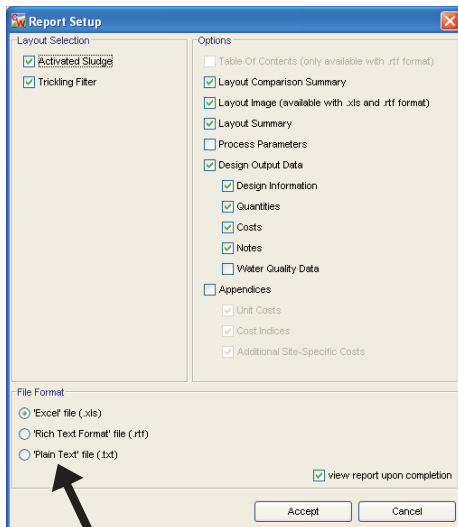
# Version 2.5 - New Features



## Reporting Feature

Version 2.5 has had its reporting feature updated and added to. This addition allows users to export costing data, layout schematics, and process data into three different file formats, depending on the user's preference.

The report can be created as a Microsoft Excel spreadsheet, a Rich Text Format document (which can be opened in most word processing programs including Microsoft Word) or simply as plain text.



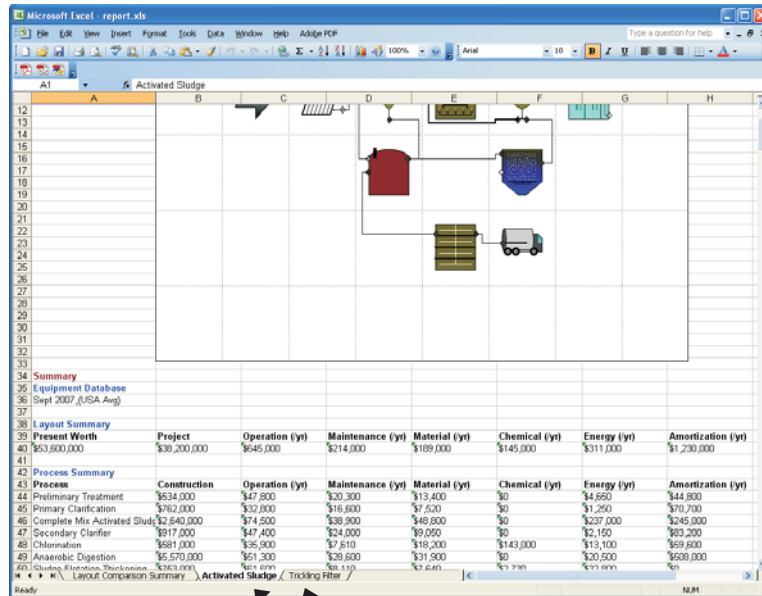
Choice of three different file formats



## Report Options

With a single click of the mouse, you can generate a complete summary of the layout, as well as full presentation of costing results, in an easy-to-read preconfigured format. The report can include (depending on the file format):

- Table of Contents
- Layout Comparison Table
- Layout Image
- Layout Cost Summary
- Input Parameters
- Design Output
- Appendices



Separate tabs for individual layouts

## Additional Changes

Many of the design algorithms for the existing unit processes were improved and updated, and the chemical specifications throughout the program have been made more consistent and clear. Additionally, several minor visual aspects of CapdetWorks have been changed to conform with today's software practices.

*For more information about Hydromantis' preliminary costing and design software, CapdetWorks, please contact us at: [info@hydromantis.com](mailto:info@hydromantis.com) or visit our website at: [www.hydromantis.com](http://www.hydromantis.com)*

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